

**AMENDMENTS TO THE CLAIMS:**

The listing of claims will replace all prior versions, and listings of claims in the application:

**LISTING OF THE CLAIMS**

1. (Currently Amended) A method for inhibiting abnormal bradykinin-induced myometrial contraction ~~caused by an inflammatory mediator~~, comprising administering to the patient in need of treatment, a therapeutically effective amount of adrenomedullin ~~without administering CGRP~~.

2. (Currently Amended) A method for selectively inhibiting abnormal bradykinin-induced myometrial contraction ~~caused by an inflammatory mediator~~ comprising the step of administering to a patient in need of treatment, a therapeutically effective amount of adrenomedullin ~~without administering CGRP~~.

3. (Previously Presented) A method for preventing premature labor, which comprises administering to the patient in need of such treatment, a therapeutically effective amount of adrenomedullin.

4. (Previously Presented) A method for preventing miscarriage, which comprises administering to the patient in need of such treatment, a therapeutically effective amount of adrenomedullin.

5. (Previously Presented) A method for arresting parturition prior to cesarean section, which comprises administering to the patient in need of such treatment, a therapeutically effective amount of adrenomedullin.

6. (Previously Presented) A method for treating dysmenorrhea, which comprises administering to the patient in need of such treatment, a therapeutically effective amount of adrenomedullin.

7. (Currently Amended) A method according to claim 1 or 2, wherein the adrenomedullin is:

- (a.) a peptide comprising an amino acid sequence from Ser in position 13 to Tyr in position 52 of SEQ ID NO: 2; or
- ~~(b.) a peptide comprising an amino acid sequence having one or several amino acid deleted, substituted, or added in the amino acid sequence (a), and having an action of inhibiting myometrial contraction.~~

8. (Currently Amended) A method according to claim 1 or 2, wherein the adrenomedullin is:

- ~~(c.)~~(b.) a peptide comprising an amino acid sequence from Tyr in position 1 to Tyr in position 52 of SEQ ID NO: 2; or
- ~~(d.) a peptide comprising an amino acid sequence having one or several amino acid deleted, substituted, or added in the amino acid sequence (c), and having an action of inhibiting myometrial contraction.~~

9. (Currently Amended) A method according to claim 1 or 2, wherein the adrenomedullin is:

- ~~(e.)~~(c.) a peptide comprising an amino acid sequence from Ala in position -73 to Tyr in position 52 of SEQ ID NO: 2; or
- ~~(f.) a peptide comprising an amino acid sequence having one or several amino acid deleted, substituted, or added in the amino acid sequence (e), and having an action of inhibiting myometrial contraction.~~

10. (Currently Amended) A method according to claim 1 or 2, wherein the adrenomedullin is:

- ~~(g.)~~(d.) a peptide comprising an amino acid sequence from Met in position -94 to Leu in position 91 of SEQ ID NO: 2; or
- ~~(h.) a peptide comprising an amino acid sequence having one or several amino acid deleted, substituted, or added in the amino acid sequence (g), and having an action of inhibiting myometrial contraction.~~

11. (Previously Presented) A method according to claim 1 or 2, wherein the C-terminus of the adrenomedullin is amidated.

12. (Previously Presented) A method according to claim 1 or 2, wherein Gly is added to the C-terminus of the adrenomedullin.

13. (Previously Presented) A method according to claim 1 or 2, wherein in the adrenomedullin, Cys in position 16 and Cys in position 21 of SEQ ID NO: 2 are crosslinked.

14. (Previously Presented) A method according to claim 13, wherein the crosslink is a disulfide bond.

15. (Previously Presented) A method according to claim 13, wherein the crosslink is a  $-CH_2-CH_2-$  bond.

16. (Canceled).

17. (Canceled).

18. (Canceled).

19. (New) A method according to claim 1 or 2, wherein the adrenomedullin is a peptide having an amino acid sequence which has about 60% homology with the amino acid sequence of SEQ ID NO: 2, and having an action of inhibiting myometrial contraction.

20. (New) A method according to claim 1 or 2, wherein the adrenomedullin is a peptide having an amino acid sequence which has about 70% homology with the amino acid sequence of SEQ ID NO: 2, and having an action of inhibiting myometrial contraction.

21. (New) A method according to claim 1 or 2, wherein the adrenomedullin is a peptide having an amino acid sequence which has about 80% homology with the amino acid sequence of SEQ ID NO: 2, and having an action of inhibiting myometrial contraction.

22. (New) A method according to claim 1 or 2, wherein the adrenomedullin is a peptide having an amino acid sequence which has about 90% homology with the amino acid sequence of SEQ ID NO: 2, and having an action of inhibiting myometrial contraction.